

C2  
12. A method for promoting central nervous axon growth in a patient in need of axon regeneration by administering to the patient a pharmaceutical composition containing at least one rho protein inhibitor selected from the group consisting of a rac protein inhibitor, a rho protein inhibitor, a protein that inhibits both a rac protein and a rho protein, and mixtures thereof, in amounts effective to inhibit rho or rac such that neurite outgrowth is stimulated.

C3  
13. A method according to claim 12 which comprises *C. botulinum* C3 exoenzyme.

C4  
17. A method according to claim 12 wherein the composition comprises a chimeric C2/C3 *C. botulinum* exoenzyme construct having the actin ADP-ribosylation activity deleted from the C2 toxin and the C3 enzyme activity substituted therefor, so that the construct ADP-ribosylates rho specifically and inactivates the G protein.

dupl 23  
C5  
23. A method according to claim 1 wherein the inhibitor is *C. botulinum* C3 exoenzyme.

dupl 24  
C6  
24. A method according to claim 12 wherein the inhibitor is *C. botulinum* C3 exoenzyme.

C6  
28. A method for promoting central nervous system axon growth in a patient in need of axon regeneration comprising administering to the patient an effective amount of *C. botulinum* C3 exoenzyme.

C7  
30. A method according to claim 28 wherein the composition comprises a chimeric C2/C3 *C. botulinum* exoenzyme construct having the actin ADP-ribosylation activity deleted from the C2 toxin and the C3 enzyme activity substituted therefor, so that the construct ADP-ribosylates rho specifically and inactivates the G protein.